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09/059,077	04/09/98	JOHNSTON		G	·	
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GREGORY E JO	HNSTON	F-14077 \ O CH T CH		QUIETT,C		
528 MONTEVAL PLACE				ART UNIT	PAPER NUMBER	
BAN JOSE CA	95120			2712		
				DATE MAILED:	14/14/99	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. 09/059,077

Applicant

G. E. Johnston And A. Levinkron

Examiner

Carramah J. Quiett

Group Art Unit 2712



X Responsive to communication(s) filed on Apr 9, 1998	·				
☐ This action is FINAL .					
☐ Since this application is in condition for allowance except for formal in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 1					
A shortened statutory period for response to this action is set to expire is longer, from the mailing date of this communication. Failure to response application to become abandoned. (35 U.S.C. § 133). Extensions of the tension of	and within the period for response will cause the				
Disposition of Claims					
X Claim(s) 1-25	is/are pending in the application.				
Of the above, claim(s)	is/are withdrawn from consideration.				
Claim(s)	is/are allowed.				
	is/are rejected.				
Claim(s)	is/are objected to.				
Claims are subject to restriction or election requirement					
Application Papers					
☐ See the attached Notice of Draftsperson's Patent Drawing Review	w, PTO-948.				
☐ The drawing(s) filed on is/are objected to be	y the Examiner.				
☐ The proposed drawing correction, filed oni	s 🗀 approved 🗀 disapproved.				
☐ The specification is objected to by the Examiner.					
☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. § 119					
☐ Acknowledgement is made of a claim for foreign priority under 3					
☐ AII ☐ Some* ☐ None of the CERTIFIED copies of the pri	ority documents have been				
received.					
received in Application No. (Series Code/Serial Number)received in this national stage application from the International					
*Certified copies not received:					
☐ Acknowledgement is made of a claim for domestic priority under					
Attachment(s)					
☐ Notice of References Cited, PTO-892					
Information Disclosure Statement(s), PTO-1449, Paper No(s).					
☐ Interview Summary, PTO-413					
 Notice of Draftsperson's Patent Drawing Review, PTO-948 Notice of Informal Patent Application, PTO-152 					
_ Notice of Informativation, Application, 110 102					
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Art Unit: 2712

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-25 have been considered but are moot in

view of the new ground(s) of rejection.

Because claim 1 in the first action was so unclear, the examiner did not realize an

important limitation was neglected. Two extra references (Schnee and Schilling) for claim 1 to

correct the error. These extra references will also eliminate the problems for claims 2, 5, 14 18,

19 and 24.

As for all the additional references that are being applied to the other claims, they are and

were not being used to address the display-control box. They are merely rejecting the additional

limitations in each claim. The display-control box has already been rejected using the references

applied to claim 1.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

such that the subject matter as a whole would have been obvious at the time the invention was made to a person

Application/Control Number: 09/059077

Art Unit: 2712

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1, 2, 5, 14, 18, 19, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schnee in view of Schilling et al and Lucas et al.

As for claims these claims, Schnee discloses a camera, which is allowed to rotate about its axis and can be mounted in a location on a vehicle (or marine vessel) that will not interfere with a users view (figure 1; column 2, lines 50-65). This means that it can be mounted at any angle with respect to gravity. In column 3, lines 60-64, he also discloses a control area with switches and a joystick that controls the movement (panning and tilting) of the camera. It is inherent that the switches and control buttons are the same kind of controls because some switches can be pressed on or off. In is also inherent for the control buttons and the joystick can be operated with one hand because these type of controls do not require a second hand to operate. The movement is operated by two motors (one for tilting and one for panning) in a water sealed housing (columns 2 & 3, lines 66-67 and 1-4). Columns 2 and 3, lines 66-67 and 1-3 demonstrate mounting the camera to the tilting motor which is mounted to the panning motor (also see figure 2). However, Schnee does not disclose a control area attached to an adjustable mount and an image capture box. Schilling discloses a rotatable mounted display device that is applicable for an electronic apparatus or navigation and television systems (column 2, lines 58-62). It would have been obvious to have an adjustable control/display area for easy access for the navigator or operator. Also, the crew or passenger(s) positioned at a different angle can rotate it in order to operate the controls or to view the display. Now, Lucas discloses a rotatable/ adjustable pan and tilt camera

Art Unit: 2712

mounted on a vehicle and can be easily controlled by the driver (or user). This device includes a display/ control apparatus that is mounted and secured in the vehicle. Furthermore, Lucas also discloses a camera that is mounted on the windshield of a vehicle (column 4, lines 17-20). Referring to figure 4, one can see that the camera can be mounted at any angle. Lastly, Lucas' invention can record the captured image(s). Please refer to the abstract and figures 1 & 4. Recording the captured scene is advantageous for future reference, especially when the operator is navigating. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include a display/control box and an image capture box mounted at any angle with respect to gravity.

4. Claims 3, 4, 8, and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schnee in view of Schilling et al and Lucas et al. as applied to claim 1 above, and further in view of Paddock et al.

For these claims, Schnee and Schilling do not disclose a mount assembly with a quick disconnect or any kind of locking mechanism. Lucas discloses a pan and tilt camera with display control that has some manner of locking (column 4, lines 17-24), but does not include a first or secondary self-locking mechanism. Paddock discloses two mechanisms, which includes a ball-plunger and a quick release mechanism for locking, in column 7, lines 27-30 and in the abstract. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include an automatic locking system for the advantage of the person

Art Unit: 2712

operating the vehicle. The user would not have to waste time adjusting the pan and tilt of the camera.

5. Claims 6, 7, 21, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schnee in view of Schilling et al and Lucas et al. as applied to claim 2 above, and further in view of Klapper et al.

As for claims 6-7 and 21-22, Schnee discloses a pan and tilt camera on a vehicle However, he does not disclose a camera mounted on the roof rack of the vehicle. Klapper teaches us about a pan and tilt camera mounted on any roof rack brand (figure 2) and/or light bar of a vehicle. In addition, Klapper discloses a camera attachment for a ship in figure 15. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to mount the camera on the roof rack of the vehicle because the user can capture images at better angles outside the vehicle.

6. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schnee in view of Schilling et al and Lucas et al. as applied to claim 2 above, and further in view of Kormos et al.

As for claim 10, Schnee discloses a camera with a singular housing for pan and tilt. However, he does not describe the system in detail. Schilling and Lucas do not disclose this limitation at all. In figure 1 and the abstract, Kormos discloses a pointing mechanism that has a singular support and separate mechanisms for operating pan and tilt. Please also refer to figure 4, and elements 562 and 564. Therefore, it would have been obvious to a person of ordinary skill in

Art Unit: 2712

the art at the time the invention was made to include this type of control system for easy access and adjusting of the camera while the operating the vehicle.

7. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schnee in view of Schilling et al and Lucas et al. as applied to claim 1 above, and further in view of Kormos et al as applied to claim 10 above, and further in view of Kurian.

For this claim, Schnee, Schilling, and Lucas do not disclose a pan and tilt camera system with a slip clutch. Kormos discloses a slip clutch as applied to claim 10. However, Kormos does not disclose the added features stated in claim 11. Although Kurian's patent does not explicitly disclose applications for cameras, Kurian discloses information about an adjustable clutch device that appears to be very similar to the features of the slip clutch. Please refer to the abstract and figure 2. He also mentions a clutch having a free rotation control, a friction disc, a wave (or spring) washer, etc. in figures 2 and 5. In figures 1 and 2, Kurian shows a friction pad between the gear and support housing. It is advantageous to add a clutch with all of the features in the limitations because it allows better pan and tilt maneuvering when the user or operator of the car captures images with the camera. The addition of a rotational free gear also allows the operator to rotate the input end of the clutch and line up the spline with thereof and the spline with the power shaft (column 1, lines 29-31). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include a slip clutch with the added features.

Art Unit: 2712

8. Claim 12 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schnee in view of Schilling et al. and Lucas et al. as applied to claim 12 above, and further in view of Sergeant et al. and Kennedy et al.

For claim 12, Schnee, Schilling, and Lucas do not disclose information about a camera housing that has an opening to accept optical filters nor an o-ring seal. Sergeant discloses a camera housing with an o-ring seal for blocking moisture in the abstract. Then, Kennedy discloses information about a camera housing that has an opening to accept optical filters in column 5, lines 23-26. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include these added features on the camera. The o-ring seal blocks moisture from environmental conditions and the optical filter provides modified focusing for the lens.

As for claim 16, Schnee, Schilling, and Lucas do not mention a camera housing acting as an additional heat sink. Sergeant also does not explicitly mention a heat sink. Instead, he uses an o-ring seal to protect the camera housing from the environment. However, Kennedy discloses this necessity in column 5, lines 13-15. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to construct a camera enclosure that acts as an additional heat sink because it adds extra protection for the camera power supply in extreme climate conditions or in the environment.

9. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schnee in view of Schilling et al and Lucas et al. as applied to claim 1 above, and further in view of McMahon.

Art Unit: 2712

In this claim, Schnee, Schilling, and Lucas do not explicitly disclose a camera in a vehicle that has a stabilized field of view (FOV). However, McMahon discloses this information in column 1, lines 40, and 51-57. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to construct a device that has a FOV stabilized camera because the camera will provide better pictures of moving images when it pans and tilts.

10. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schnee in view of Schilling et al and Lucas et al. as applied to claim 2 above, and further in view of Baumeister.

As for this claim, Schnee, Schilling, and Lucas do not explicitly disclose a device with a heat sink. However, in figure 2 and column 3, lines 56-57, Baumeister discloses a camera that includes a heat sink for temperature control. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include a heat sink in the camera because it will keep the camera from overheating.

11. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schnee in view of Schilling et al. and Lucas et al. as applied to claim 1 above, and further in view of Balkwill et al.

In this claim, Schnee, Schilling, and Lucas do not explicitly mention a one way moisture passage plug, but he does have a cable that appears to be flexible in figure 1, element 28.

Although Balkwill disclose information relating to a camera, he reveals an electrical box that prevents moisture from entering the box. It has a plug/ opening that receives a wire which is sealed and resists moisture passage. Balkwill's invention can be applied to any camera enclosure. Please refer to column 1, lines 47-60. Therefore, it would have been obvious to a person of

Art Unit: 2712

ordinary skill in the art at the time the invention was made to include a plug with these features. It would add more protection for the camera power supply in different climate conditions.

12. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schnee in view of Schilling et al and Lucas et al. as applied to claim 1 above, and further in view of Tovi.

As for this claim, Schnee, Schilling, and Lucas do not disclose a tinted sphere enclosing the camera. On the other hand, Tovi discloses a silver, transparent, and spherical camera enclosure for surveillance purposes. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to place the camera in an enclosure. Since this is a surveillance device, one would want to conceal the camera from the images being surveyed.

13. Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schnee in view of Schilling et al and Lucas et al. as applied to claim 1 above, and further in view of Conway et al.

Schnee, Schilling, and Lucas does not reveal that the images can be view on the Internet in the vehicle. On the other hand, Conway discloses different communication links to display captured images from a camera. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include a feature transmitting captured images on the Internet. It allow a surveyor at remote location way to view the images while they are being captured by the camera on the surveillance car.

Application/Control Number: 09/059077

Art Unit: 2712

Page 10

Conclusion

Any response to this action should be mailed to:

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Washington, DC 20231

or faxed to:

(703)308-9051, (for formal communications intended for entry)

Or:

(703)308-5399 (for informal or draft communications, please label "PROPOSED or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carramah J. Quiett whose telephone number is (703) 305-1460. The examiner can normally be reached on Monday-Thursday from 8:00 to 5:00. The examiner can also be reached on alternate Friday's.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber, can be reached on (703) 305-4929. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-5299.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

CARRAMAH J. QUIETT PATENT EXAMINER Wendy Garber
Supervisory Patent Examiner
Technology Center 2700